CLAIM AMENDMENT

Please amend the claims as follows

1. (Currently amended) A method for producing a transformed maize plant comprising the steps of:

inserting into a transformable maize tissue a nucleic acid comprising a selectable marker gene to obtain a transformed maize tissue;

culturing the transformed maize tissue for a period of time from about 7 days to about 42 days at a temperature of from about 28.5°C to about 35°C in a selection media containing a selection compound that inhibits the growth of non-transformed maize tissue and permits the continued growth of transformed maize tissue;

identifying and selecting transformed maize tissue that grows in the selection media; and

regenerating a transformed maize plant from the selected transformed maize tissue.

2. (Original) The method of claim 1 wherein the period of time in the selection media is between about 7 days and about 28 days.

3. (Original) The method of claim 1 wherein the selection temperature is from about 30°C to about 34°C.

4. (Original) The method of claim 3 wherein the selection temperature is 30°C.

5. (Original) The method of claim 3 wherein the selection temperature is maintained for a period of about 1-14 days.

6. (Original) The method of claim 1 wherein the selection is performed in a single vessel without replacing or replenishing the selection media during the selection period.

7. (Original) The method of claim 1 wherein the selection compound is a herbicide.

8. (Original) The method of claim 7 wherein the herbicide is selected from the group consisting of glyphosate, bialophos, phosphinothricin or Basta.

9. (Original) The method of claim 1 wherein the nucleic acid is inserted into the maize tissue by inoculation with an *Agrobacterium* containing said nucleic acid.

10. (Original) The method of claim 9 wherein the *Agrobacterium* inoculation is performed for less than about 20 minutes.

11. (Original) The method of claim 9 wherein the *Agrobacterium* inoculation is performed by contacting the transformable maize tissue with filter paper saturated with the *Agrobacterium* containing the nucleic acid.

12. (Original) The method of claim 11 wherein the filter paper contacts the transformable maize tissue for between about 5 and about 60 minutes.

13. (Original) The method of claim 9 where in the *Agrobacterium* inoculation is performed by spotting the maize tissue with about 1 μL of *Agrobacterium* containing the nucleic acid.

14. (Original) A transgenic maize plant produced by the method of claim 1.

15. (Currently amended) A method for producing a transformed cereal plant comprising the steps of:

inserting into a transformable cereal tissue a nucleic acid comprising a selectable marker gene to obtain a transformed cereal tissue;

culturing the transformed cereal tissue for a period of time from about 7 days to about 42 days at a temperature of from about 28.5°C to about 35°C in a selection media containing a selection compound that inhibits the growth of non-transformed cereal tissue and permits the continued growth of transformed cereal tissue;

identifying and selecting transformed cereal tissue that grows in the selection media; and

regenerating a transformed cereal plant from the selected transformed cereal tissue.

16. (Original) The method of claim 15 wherein the period of time in the selection media is between about 7 days and about 28 days.

17. (Original) The method of claim 15 wherein the selection temperature is from about 30°C to about 34°C.

18. (Original) The method of claim 17 wherein the selection temperature is 30°C.

19. (Original) The method of claim 17 wherein the selection temperature is maintained for a period of about 1-14 days.

20. (Original) The method of claim 15 wherein the selection is performed in a single vessel without replacing or replenishing the selection media during the selection period.

21. (Original) The method of claim 15 wherein the selection compound is a herbicide.

22. (Original) The method of claim 21 wherein the herbicide is selected from the group consisting of glyphosate, bialophos, phosphinothricin or Basta.

23. (Original) The method of claim 15 wherein the nucleic acid is inserted into the maize tissue by inoculation with an *Agrobacterium* containing said nucleic acid.

24. (Original) The method of claim 23 wherein the *Agrobacterium* inoculation is performed for less than about 20 minutes.

25. (Original) The method of claim 23 wherein the *Agrobacterium* inoculation is performed by contacting the transformable cereal tissue with filter paper saturated with the *Agrobacterium* containing the nucleic acid.

26. (Original) The method of claim 25 wherein the filter paper contacts the transformable maize tissue for between about 5 and about 60 minutes.

27. (Currently amended) The method of claim [[9]] 23 where in the *Agrobacterium* inoculation is performed by spotting the maize tissue with about 1 μL of *Agrobacterium* containing the nucleic acid.

28. (Original) A transgenic cereal plant produced by the method of claim 15.

29. (Withdrawn) A method for increasing the transformation efficiency of a cereal transformation process comprising limiting the anaerobiosis effect during the inoculation of *Agrobacterium* to the transformable cereal tissue.

30. (New) The method of claim 1, wherein the transformable maize tissue is an immature embryo and the nucleic acid is inserted by inoculation with an *Agrobacterium* containing said nucleic acid.